

A DEVICE FOR AIR CLEANING FROM DUST AND AEROSOLS

5

ABSTRACT

A device for air cleaning from dust and aerosols based on the use of non-homogeneous electrostatic field creating a flow of charged particles (the so called "ionic wind") and operating as electrostatic precipitator. The device comprises a body inside
10 which corona-forming and precipitation electrodes with opposite polarities are established. Inside the body deflection electrodes are established as well, in front of corona-forming electrodes a reflector for positively charged aeroions by an electrode electrically coupled with said corona-forming electrodes being established. The device
15 comprises one or several tapes made of porous-fiber material placed into non-homogeneous electric field.